Practice: 393 - Filter Strip

Scenario # 1 Native species, No Fertility Required

Scenario Description: **Missouri**

A strip or area of native herbaceous vegetation situated between cropland, grazing land or disturbed land and sensitive areas.Current soil test indicates that fertility is not necessary for vegetation establishment. Practice includes seedbed prep, planting of native species and foregone income for land removed from production.

Before Practice Situation:

Annual cropland, grazing land, or disturbed land (including forestland) allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

After Practice Situation:

The planned filter strip will be established and mainatined per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of native species. The filter strip will have adequate width to filter the planned pollutants. The practice includes seedbed preparation, seeding, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment and tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

Scenario Feature Measure:

number of acres

Scenario Typical Size:	1	Acre	Tot Unit Cost	$783.24

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Little Blue Stem (Schizachyrium scoparium)	10	Pound	$15.43	$154.30
Materials	Indian Grass, Tomahawk (Sorghastrum nutans)	12	Pound	$12.63	$151.56
Materials	Switchgrass, Blackwell (Panicum virgatum)	6	Pound	$9.62	$57.72
Materials	Herbicide, Glyphosate	1	Acre	$11.04	$11.04
Equip./Install.	Seeding Operation, No Till/Grass Drill	1	Acre	$14.99	$14.99
Equip./Install.	Chemical, ground application	1	Acre	$4.57	$4.57
Forgone Incom	FI, Corn Dryland	0.5	Acre	$392.59	$196.30
Forgone Incom	FI, Soybeans Dryland	0.5	Acre	$385.53	$192.77
				Total Cost:	$783.24

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP-MRBI	$587.43	EQIP-HUMRBI	$704.92
EQIP-CCPI	$490.17	EQIP-HUCCPI	$646.56

Practice: 393 - Filter Strip

Scenario # 2 Native species with Fertility

Scenario Description: **Missouri**

A strip or area of native herbaceous vegetation situated between cropland, grazing land or disturbed land and sensitive areas. Practice includes seedbed prep, planting of native species, fertilizer and foregone income for land remove from production.

Before Practice Situation:

Annual cropland, grazing land, or disturbed land (including forestland) allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

After Practice Situation:

The planned filter strip will be established and mainatined per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of native species. The filter strip will have adequate width to filter the planned pollutants. The practice includes seedbed preparation, seeding, fertility, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment and tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

Scenario Feature Measure:

Number of acres

Scenario Typical Size:	1	Acre	Tot Unit Cost	$879.76

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Partidge Pea (Chamaecrista fasciculata)	2	Pound	$15.70	$31.40
Materials	Little Blue Stem (Schizachyrium scoparium)	10	Pound	$15.43	$154.30
Materials	Indian Grass, Tomahawk (Sorghastrum nutans)	12	Pound	$12.63	$151.56
Materials	Potassium, K2O	50	Pound	$0.52	$26.00
Materials	Phosphorus, P2O5	50	Pound	$0.66	$33.00
Materials	Switchgrass, Blackwell (Panicum virgatum)	6	Pound	$9.62	$57.72
Materials	Herbicide, Glyphosate	1	Acre	$11.04	$11.04
Equip./Install.	Fertilizer, ground application, dry bulk	1	Acre	$6.12	$6.12
Equip./Install.	Seeding Operation, No Till/Grass Drill	1	Acre	$14.99	$14.99
Equip./Install.	Chemical, ground application	1	Acre	$4.57	$4.57
Forgone Incom	FI, Corn Dryland	0.5	Acre	$392.59	$196.30
Forgone Incom	FI, Soybeans Dryland	0.5	Acre	$385.53	$192.77
				Total Cost:	$879.76

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP-MRBI	$659.82	EQIP-HUMRBI	$791.78
EQIP-CCPI	$562.56	EQIP-HUCCPI	$733.43

Practice: 393 - Filter Strip

Scenario # 3 **Native species, No Fertility Required - Organic**

Scenario Description: **Missouri**

A strip or area of native herbaceous vegetation situated between cropland, grazing land or disturbed land and sensitive areas. Current soil test indicates that fertility is not necessary for vegetation establishment. Practice includes seedbed prep, planting of native species and forgone income for land removed from production.

Before Practice Situation:

Annual cropland, grazing land, or disturbed land (including forestland) allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

After Practice Situation:

The planned filter strip will be established and mainatined per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of native species. The filter strip will have adequate width to filter the planned pollutants. The practice includes seedbed preparation, seeding, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment and tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

Scenario Feature Measure:

number of acres

Scenario Typical Size:	1	Acre	Tot Unit Cost	$809.32

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Partidge Pea (Chamaecrista fasciculata)	2	Pound	$15.70	$31.40
Materials	Little Blue Stem (Schizachyrium scoparium)	10	Pound	$15.43	$154.30
Materials	Indian Grass, Tomahawk (Sorghastrum nutans)	12	Pound	$12.63	$151.56
Materials	Switchgrass, Blackwell (Panicum virgatum)	6	Pound	$9.62	$57.72
Equip./Install.	Seeding Operation, No Till/Grass Drill	1	Acre	$14.99	$14.99
Equip./Install.	Tillage, Light	1	Acre	$10.29	$10.29
Forgone Incom	FI, Corn Dryland	0.5	Acre	$392.59	$196.30
Forgone Incom	FI, Soybeans Dryland	0.5	Acre	$385.53	$192.77
				Total Cost:	$809.32

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP-NOI	$606.99	EQIP-HUNOI	$728.39

Practice: 393 - Filter Strip

Scenario # 4 **Native species, with Fertility - Organic**

Scenario Description: **Missouri**

A strip or area of Native herbaceous vegetation situated between cropland, grazing land or disturbed land and sensitive areas. Practice includes seedbed prep, planting of native species, fertility and foregone income for land removed from production.

Before Practice Situation:

Annual cropland, grazing land, or disturbed land (including forestland) allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

After Practice Situation:

The planned filter strip will be established and mainatined per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of native species. The filter strip will have adequate width to filter the planned pollutants. The practice includes seedbed preparation, seeding, fertility, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment and tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

Scenario Feature Measure:

Number of acres

Scenario Typical Size:	1	Acre	Tot Unit Cost	$1,028.94

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Partidge Pea (Chamaecrista fasciculata)	2	Pound	$15.70	$31.40
Materials	Little Blue Stem (Schizachyrium scoparium)	10	Pound	$15.43	$154.30
Materials	Indian Grass, Tomahawk (Sorghastrum nutans)	12	Pound	$12.63	$151.56
Materials	Switchgrass, Blackwell (Panicum virgatum)	6	Pound	$9.62	$57.72
Materials	Potassium, Organic	50	Pound	$1.31	$65.50
Materials	Phosphorus, Organic	50	Pound	$2.96	$148.00
Equip./Install.	Fertilizer, ground application, dry bulk	1	Acre	$6.12	$6.12
Equip./Install.	Seeding Operation, No Till/Grass Drill	1	Acre	$14.99	$14.99
Equip./Install.	Tillage, Light	1	Acre	$10.29	$10.29
Forgone Incom	FI, Corn Dryland	0.5	Acre	$392.59	$196.30
Forgone Incom	FI, Soybeans Dryland	0.5	Acre	$385.53	$192.77
				Total Cost:	$1,028.94

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP-NOI	$771.71	EQIP-HUNOI	$926.05

Practice: 393 - Filter Strip

Scenario # 5 Introduced species, No Fertility Required

Scenario Description: **Missouri**

A strip or area of Introduced herbaceous vegetation situated between cropland, grazing land or disturbed land and sensitive areas. Current soil test indicates that fertility is not necessary for vegetation establishment. Practice includes seedbed prep planting of introduced species and foregone income for land removed from production.

Before Practice Situation:

Annual cropland, grazing land, or disturbed land (including forestland) allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

After Practice Situation:

The planned filter strip will be established and mainatined per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of introduced species. The filter strip will have adequate width to filter the planned pollutants. The practice includes seedbed preparation, seeding, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment and tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

Scenario Feature Measure:

Number of acres

Scenario Typical Size:	1	Acre	Tot Unit Cost	$523.46

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Fescue, Tall (Festuca arundinacea)	30	Pound	$1.80	$54.00
Materials	Alfalfa (Medicago sativa)	12	Pound	$4.15	$49.80
Materials	Herbicide, Glyphosate	1	Acre	$11.04	$11.04
Equip./Install.	Seeding Operation, No Till/Grass Drill	1	Acre	$14.99	$14.99
Equip./Install.	Chemical, ground application	1	Acre	$4.57	$4.57
Forgone Incom	FI, Corn Dryland	0.5	Acre	$392.59	$196.30
Forgone Incom	FI, Soybeans Dryland	0.5	Acre	$385.53	$192.77
				Total Cost:	$523.46

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP-MRBI	$392.60	EQIP-HUMRBI	$471.11
EQIP-CCPI	$295.33	EQIP-HUCCPI	$412.76

Practice: 393 - Filter Strip

Scenario # 6 Introduced species, with Fertility:

Scenario Description: **Missouri**

A strip or area of herbaceous vegetation, introduced species, situated between cropland, grazing land or disturbed land and sensitive areas. Practice includes seedbed prep, planting of introduced species, fertility and foregone income for land removed from producation.

Before Practice Situation:

Annual cropland, grazing land, or disturbed land (including forestland) allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

After Practice Situation:

The planned filter strip will be established and mainatined per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of introduced species. The filter strip will have adequate width to filter the planned pollutants. The practice includes seedbed preparation, seeding, fertility, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment and tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

Scenario Feature Measure:

Number of acres

Scenario Typical Size:	1	Acre	Tot Unit Cost	$618.58

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Fescue, Tall (Festuca arundinacea)	30	Pound	$1.80	$54.00
Materials	Potassium, K2O	50	Pound	$0.52	$26.00
Materials	Phosphorus, P2O5	50	Pound	$0.66	$33.00
Materials	Nitrogen (N), Urea	50	Pound	$0.60	$30.00
Materials	Alfalfa (Medicago sativa)	12	Pound	$4.15	$49.80
Materials	Herbicide, Glyphosate	1	Acre	$11.04	$11.04
Equip./Install.	Fertilizer, ground application, dry bulk	1	Acre	$6.12	$6.12
Equip./Install.	Seeding Operation, No Till/Grass Drill	1	Acre	$14.99	$14.99
Equip./Install.	Chemical, ground application	1	Acre	$4.57	$4.57
Forgone Incom	FI, Corn Dryland	0.5	Acre	$392.59	$196.30
Forgone Incom	FI, Soybeans Dryland	0.5	Acre	$385.53	$192.77
				Total Cost:	$618.58

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP-MRBI	$463.94	EQIP-HUMRBI	$556.72
EQIP-CCPI	$366.67	EQIP-HUCCPI	$498.36

Practice: 393 - Filter Strip

Scenario # 7 Introduced species, No Fertility Required - Organic

Scenario Description: **Missouri**

A strip or area of Introduced herbaceous vegetation situated between cropland, grazing land or disturbed land and sensitive areas. Current soil test indicates that fertility is not necessary for vegetation establishment. Practice includes seedbed prep, planting of introduced species and foregone income for land removed from production.

Before Practice Situation:

Annual cropland, grazing land, or disturbed land (including forestland) allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

After Practice Situation:

The planned filter strip will be established and mainatined per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of introduced species. The filter strip will have adequate width to filter the planned pollutants. The practice includes seedbed preparation, seeding, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment and tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

Scenario Feature Measure:

Number of acres

Scenario Typical Size:	1	Acre	Tot Unit Cost	$596.50

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Certified Organic, Alfalfa (Medicago sativa)	12	Pound	$4.38	$52.56
Materials	Certified Organic, Fescue, Tall (Festuca	30	Pound	$4.32	$129.60
Equip./Install.	Seeding Operation, No Till/Grass Drill	1	Acre	$14.99	$14.99
Equip./Install.	Tillage, Light	1	Acre	$10.29	$10.29
Forgone Incom	FI, Corn Dryland	0.5	Acre	$392.59	$196.30
Forgone Incom	FI, Soybeans Dryland	0.5	Acre	$385.53	$192.77
				Total Cost:	$596.50

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP-NOI	$447.38	EQIP-HUNOI	$536.85

Practice: 393 - Filter Strip

Scenario # 8 Introduced Species, with Fertility - Organic

Scenario Description: **Missouri**

A strip or area of herbaceous vegetation, introduced species, situated between cropland, grazing land or disturbed land and sensitive areas. Practice includes seedbed prep, land shaping and planting of approved species. Planting of introduced species, fertility and foregone income for land removed from production.

Before Practice Situation:

Annual cropland, grazing land, or disturbed land (including forestland) allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

After Practice Situation:

The planned filter strip will be established and mainatined per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of introduced species. The filter strip will have adequate width to filter the planned pollutants. The practice includes seedbed preparation, seeding, feritlity, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment and tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

Scenario Feature Measure:

Number of acres

Scenario Typical Size:	1	Acre	Tot Unit Cost	$939.62

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Certified Organic, Alfalfa (Medicago sativa)	12	Pound	$4.38	$52.56
Materials	Certified Organic, Fescue, Tall (Festuca	30	Pound	$4.32	$129.60
Materials	Potassium, Organic	50	Pound	$1.31	$65.50
Materials	Phosphorus, Organic	50	Pound	$2.96	$148.00
Materials	Nitrogen, Organic	50	Pound	$2.47	$123.50
Equip./Install.	Fertilizer, ground application, dry bulk	1	Acre	$6.12	$6.12
Equip./Install.	Seeding Operation, No Till/Grass Drill	1	Acre	$14.99	$14.99
Equip./Install.	Tillage, Light	1	Acre	$10.29	$10.29
Forgone Incom	FI, Corn Dryland	0.5	Acre	$392.59	$196.30
Forgone Incom	FI, Soybeans Dryland	0.5	Acre	$385.53	$192.77
				Total Cost:	$939.62

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP-NOI	$704.72	EQIP-HUNOI	$845.66